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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Lincoln *et al.*

Attorney Docket: 13020-10

Serial No.: 09/618,178

Examiner (from parent): Fredman, J.

Filed: July 18, 2000

Group Art Unit (from parent): 1655

For: AUTOMATIC GENOTYPE DETERMINATION

Kalow & Springut LLP
488 Madison Avenue, 19th Floor
New York, NY 10022

September 5, 2000

Assistant Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

In order to fulfill the requirements of candor and good faith set forth in 37 CFR § 1.56, Applicants submit herewith the following disclosures in accordance with the provisions of 37 CFR § 1.97 and § 1.98.

U.S. PATENT DOCUMENTS

<u>PATENT NO.</u>	<u>TITLE</u>	<u>ISSUE DATE</u>
4,309,112 to Ashley et al.	RATE MEASUREMENT ANALYZER	Jan. 5, 1982
4,852,017 to Hunkapiller	DETERMINATION OF PEPTIDE SEQUENCES	Jul. 25, 1989
5,221,518 to Mills	DNA SEQUENCING APPARATUS	Jun. 22, 1993
5,415,839 to Zaun et al.	APPARATUS AND METHOD FOR AMPLIFYING AND DETECTING TARGET NUCLEIC ACIDS	May 16, 1995
5,443,791 to Cathcart et al.	AUTOMATED MOLECULAR BIOLOGY LABORATORY	Aug. 22, 1995
5,449,621 to Klein	METHOD FOR MEASURING SPECIFIC BINDING ASSAYS	Sep. 12, 1995

Certificate of Mailing Under 37 C.F.R. 1.8

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PATENT NO.

TITLE

ISSUE DATE

5,453,247 to
Beavis *et al.*

INSTRUMENT AND METHOD FOR THE
SEQUENCING OF GENOME

Sep. 26, 1995

5,516,663 to
Backman *et al.*

LIGASE CHAIN REACTION WITH
ENDONUCLEASE IV CORRECTION
AND CONTAMINATION CONTROL

May 14, 1996

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FOREIGN PATENT DOCUMENTS

**PATENT
APPLICATION
NO.**

TITLE

**PUBLICATION
DATE**

WO 88/03957

NUCLEIC ACID PROBES FOR
DETECTION AND/OR QUANTIFICATION
OF NON-VIRAL ORGANISMS

2 June 1998

WO 90/04651

MAPPING QUANTITATIVE TRAITS
USING GENETIC MARKERS

3 May 1990

WO 92/15712

NUCLEIC ACID TYPING BY
POLYMERASE EXTENSION OF
OLIGONUCLEOTIDES USING
TERMINATOR MIXTURES

17 September
1992

WO 93/11262

METHOD OF SELECTING AT LEAST
ONE MUTATION SCREEN, ITS
APPLICATION TO A METHOD FOR
RAPID IDENTIFICATION OF ALLELES
OF POLYMORPHOUS SYSTEMS AND
DEVICE FOR IMPLEMENTATION
THEREOF

10 June 1993

OTHER DOCUMENTS

1. Fisher Scientific Catalog, p. 697, (1983).
2. Theo T. Nikiforov *et al.*, "Genetic Bit Analysis: A Solid Phase Method for Typing Single Nucleotide Polymorphisms," *Nucleic Acids Research*, vol. 22, No. 20, pp. 4167-4175 (1994).
3. David J. Balding *et al.*, "Statistical Analysis of DNA Fingerprint Data for Ordered Clone Physical Mapping of Human Chromosomes," *Bulletin of Mathematical Biology*, vol. 53, No. 6, pp. 853-879 (1991).

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4. Mark Keating, M.D., "Linkage Analysis and Long QT Syndrome Using Genetics to Study Cardiovascular Disease," *Circulation*, vol. 85, No. 6 pp. 1973-1986 (1992).
5. Tosh, Yasunaka *et al.*, "Determination of Gene Recombination Value," *Patent Abstracts of Japan*, vol. 018 no. 215 (C-1191) (1994).
6. David C. Mansfield *et al.*, "Automation of Genetic Linkage Analysis Using Fluorescent Microsatellite Markers," *Genomics*, vol. 24, pp. 225-233 (1994).
7. Mark D. Shriver *et al.*, "VNTR Allele Frequency Distributions Under the Stepwise Mutation Model: A Computer Simulation Approach," *Genetics*, vol. 134, pp. 983-993 (1993).
8. M. Nata *et al.*, "Prenatal paternity testing with DNA analyses," *International Journal of Legal Medicine*, vol. 106, pp. 160-162 (1993).
9. Colin P. Kimpton *et al.*, "Automated DNA Profiling Employing Multiplex Amplification of Short Tandem Repeat Loci," *PCR Methods and Applications*, vol. 3, pp. 13-22 (1993).
10. W. Edward Highsmith, Jr., *et al.*, "Frequency of the Δ Phe⁵⁰⁸ Mutation and Correlation with XV.2c/KM-19 Haplotypes in an American Population of Cystic Fibrosis Patients: Result of a Collaborative Study," *Clin. Chem.*, vol. 36 no 10, pp. 1741-1746 (1990).
11. Andrew G. Clark, "Inference of Haplotypes from PCR-amplified Samples of Diploid Populations," *J. Biol. Evol.*, vol. 7 no. 2, pp. 111-122 (1990).
12. W. Y. Tan, "On the Distribution of the Number of Mutants at the Hypoxanthine-Quanine Phosphoribosyl Transferase Locus in Chinese Hamster Ovary Cells," *Mathematical Biosciences*, vol. 67, pp. 175-192 (1983).

The above documents are also listed on Applicants' PTO 1449 Form which is enclosed for the convenience of the Examiner. A copy of each of the items identified above is submitted with this statement.

The attorneys for the Applicants take no position on whether or not any item cited above and listed on Form PTO 1449 constitutes prior art against the subject application under any particular provision of Title 35 of the United States Code.

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The Commissioner is hereby authorized to charge any fees which may be required for this Information Disclosure Statement to Deposit Account No. 11-0171.

Respectfully submitted,

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